

SEQ ID NO	Sequence
1	Ac-HSDAVFTDQYTRLRKQVAAKKYLQSIKQKRY
2	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKRY
3	Ac-HSDAVFTDQYTRLRKQVAAKKYLQSIKQK
4	Ac-HTEAVFTDQYTRLRKQVAAKKYLQSIKQKRY
5	Ac-HSDAVFTDQYTRLRKQLAVKKYLQDIKQGGT
6	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKR
7	Ac-HSDAVFTDQYTRLRKQLAAKKYLQTIKQKRY
8	Ac-HSDAVFTDQYTRLRKQMAAKKYLQTIKQKRY
9	Ac-HSDAVFTDQYTRLRKQMAAHKYLQSIKQKRY
10	Ac-HSDAVFTDQYTRLRKQMAAKHLYLQSIKQKRY
11	Ac-HSDAVFTDQYTRLRKQMGKKYLQSIKQKR
12	Ac-HSDAVFTDQYTRLRKQMAKKYLQSIKQKR
13	Ac-HSDAVFTDQYTRLRKQMARKKYLQSIKQKR
14	Ac-HSDAVFTDQYTRLRKQMASKKYLQSIKQKR
15	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIPOQKR
16	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIQQKR
17	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIHQKR
18	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQRR
19	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKA
20	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKF
21	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKH
22	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKI
23	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKK
24	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKL
25	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKM
26	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKP
27	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKQ
28	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKS
29	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKT
30	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKV
31	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKW
32	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKY
33	Ac-HSDAVFTDQYTRLRKQMGKKYLQSIKQRI
34	Ac-HSDAVFTDQYTRLRKQMAKKYLQSIKQRI
35	Ac-HSDAVFTDQYTRLRKQMASKKYLQSIKQRI
36	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIPOQRI
37	Ac-HSDAVFTDQYTRLRKQMASKKYLQSIHQRI

FIG. 1a

SEQ ID NO	Sequence
38	Ac-HSDAVFTDNYTRLRKQVAAKKYLQSIKQKRY
39	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKOKRY
40	Ac-HSDAVFTDNYTRLRKQVAAKKYLQSIKOK
41	Ac-HTEAVFTDNYTRLRKQVAAKKYLQSIKQKRY
42	Ac-HSDAVFTDNYTRLRKQLAVKKYLQDIKQGGT
43	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKR
44	Ac-HSDAVFTDNYTRLRKQLAAKKYLQTIKQKRY
45	Ac-HSDAVFTDNYTRLRKQMAAKKYLQTIKQKRY
46	Ac-HSDAVFTDNYTRLRKQMAAHKYLQSIKQKRY
47	Ac-HSDAVFTDNYTRLRKQMAAKHLYLQSIKQKRY
48	Ac-HSDAVFTDNYTRLRKQMAGKKYLQSIKQKR
49	Ac-HSDAVFTDNYTRLRKQMAAKKKYLQSIKQKR
50	Ac-HSDAVFTDNYTRLRKQMARKKYLQSIKQKR
51	Ac-HSDAVFTDNYTRLRKQMASKKYLQSIKQKR
52	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKR
53	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIQKQR
54	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIROKR
55	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQRR
56	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKA
57	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQF
58	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKH
59	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKI
60	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKK
61	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKL
62	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKM
63	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKP
64	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKQ
65	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKS
66	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKT
67	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKV
68	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKW
69	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQKY
70	Ac-HSDAVFTDNYTRLRKQMAGKKYLQSIKQRI
71	Ac-HSDAVFTDNYTRLRKQMAAKKKYLQSIKQRI
72	Ac-HSDAVFTDNYTRLRKQMASKKYLQSIKQRI
73	Ac-HSDAVFTDNYTRLRKQMAAKKYLQSIKQRI
74	Ac-HSDAVFTDNYTRLRKQMASKKYLQSIRORI

FIG. 1b

SEQ ID NO	Sequence
75	Ac-HSDAVFTDQYTRLRKQVAAKKYLQSIKNKRY
76	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKRY
77	Ac-HSDAVFTDQYTRLRKQVAAKKYLQSIKNK
79	Ac-HTEAVFTDQYTRLRKQVAAKKYLQSIKNKRY
80	Ac-HSDAVFTDQYTRLRKQLAVKKYLQDIKNNGGT
81	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKR
82	Ac-HSDAVFTDQYTRLRKQLAAKKYLQTIKNKRY
83	Ac-HSDAVFTDQYTRLRKQMAAKKYLQTIKNKRY
84	Ac-HSDAVFTDQYTRLRKQMAAHKYLQSIKNKRY
85	Ac-HSDAVFTDQYTRLRKQMAAKHKLQSIKNKRY
86	Ac-HSDAVFTDQYTRLRKQMAGKKYLQSIKNKR
87	Ac-HSDAVFTDQYTRLRKQMAKKYLQSIKNKR
88	Ac-HSDAVFTDQYTRLRKQMACKYLQSIKNKR
89	Ac-HSDAVFTDQYTRLRKQMASKYLQSIKNKR
90	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKR
91	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIQNK
92	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIIRNKR
93	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNRR
94	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKA
95	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKF
96	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKH
97	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKI
98	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKK
99	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKL
100	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNM
101	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKP
102	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNQ
103	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKS
104	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKT
105	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKV
106	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKW
107	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKNKY
108	Ac-HSDAVFTDQYTRLRKQMAGKKYLQSIKNRI
109	Ac-HSDAVFTDQYTRLRKQMAKKYLQSIKNRI
110	Ac-HSDAVFTDQYTRLRKQMASKYLQSIKNRI
111	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIPNRI
112	Ac-HSDAVFTDQYTRLRKQMASKYLQSIKNRI

FIG. 1c

SEQ ID NO	Sequence
113	Ac-HSDAVFTDQYTRLRKQVAAKKYLQSIKQKRYC-PEG
114	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKRYC-PEG
115	Ac-HSDAVFTDQYTRLRKQVAAKKYLQSIKQKQC-PEG
116	Ac-HTEAVFTDQYTRLRKQVAAKKYLQSIKQKRYC-PEG
117	Ac-HSDAVFTDQYTRLRKQLAVKYLQDIKQGGTC-PEG
118	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKQKRC-PEG
119	Ac-HSDAVFTDQYTRLRKOLAAKKYLQTIKQKRYC-PEG
120	Ac-HSDAVFTDQYTRLRKQMAAKKYLQTIKQKRYC-PEG
121	Ac-HSDAVFTDQYTRLRKQMAAHKYLQSIKQKRYC-PEG
122	Ac-HSDAVFTDQYTRLRKQMAAKHYLQSIKQKRYC-PEG
123	Ac-HSDAVFTDQYTRLRKQMAGKKYLQSIKQKRC-PEG
124	Ac-HSDAVFTDQYTRLRKQMAKKYLQSIKQKRC-PEG
125	Ac-HSDAVFTDQYTRLRKQMARKKYLQSIKQKRC-PEG
126	Ac-HSDAVFTDQYTRLRKQMASKKYLQSIKQKRC-PEG
127	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIQPKRC-PEG
128	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIQQKRC-PEG
129	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIRKRC-PEG
130	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIQRRC-PEG
131	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIQKAC-PEG
132	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIKOKFC-PEG
133	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIQKHC-PEG
134	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIQKIC-PEG
135	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIQKKC-PEG
136	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIQKLC-PEG
137	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIQKMC-PEG
138	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIQKPC-PEG
139	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIQKQC-PEG
140	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIQKSC-PEG
141	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIQKTC-PEG
142	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIQKV-PEG
143	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIQKWC-PEG
144	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIQKYC-PEG
145	Ac-HSDAVFTDQYTRLRKQMAGKKYLQSIQKRIC-PEG
146	Ac-HSDAVFTDQYTRLRKQMAKKYLQSIQKRIC-PEG
147	Ac-HSDAVFTDQYTRLRKQMASKKYLQSIQKRIC-PEG
148	Ac-HSDAVFTDQYTRLRKQMAAKKYLQSIQPRIC-PEG
149	Ac-HSDAVFTDQYTRLRKQMASKKYLQSIQRIC-PEG

FIG. 1d

SEQ ID NO	Sequence
150	HSDGIFTDSYSRYRKQMAVKYLAAVLGKRYKQRVKNK
151	HSDGIFTDSYSRYRKQMAVKYLAAVL
152	HSDAVFTDNYTRLRKQMAVKYLN SILN
153	HSDAVFTDQYTRLRKQVAAKKYLQS IKQKRY
154	Ac-HTDAVFTDQYTRLRKQVAAKKYLQS IKQKRY
155	HSDAVFTDQYTRLRKQVAAKKYLQS IKQKRYC-PEG
156	Ac-HTDAVFTDQYTRLRKQVAAKKYLQS IKQKRYC-PEG

FIG. 1e

Stability against DPP IV Cleavage

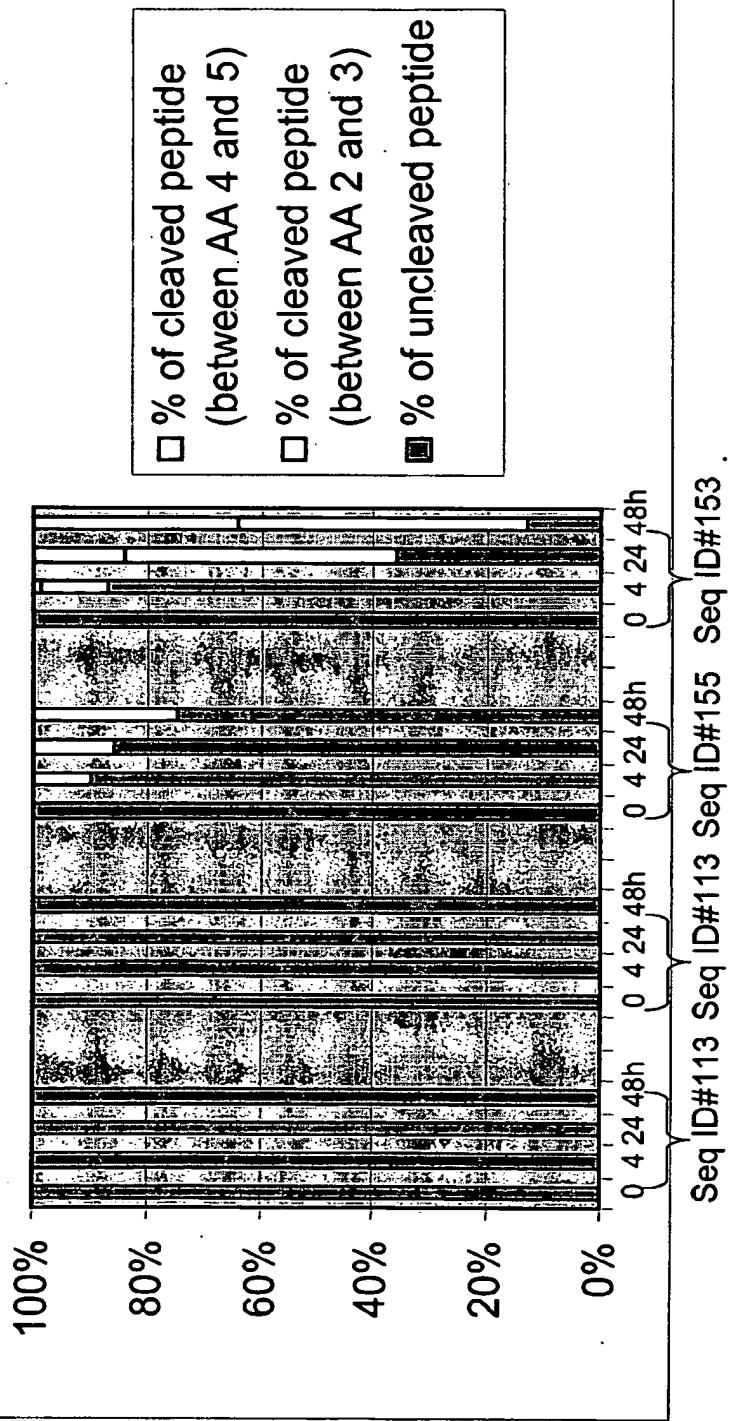
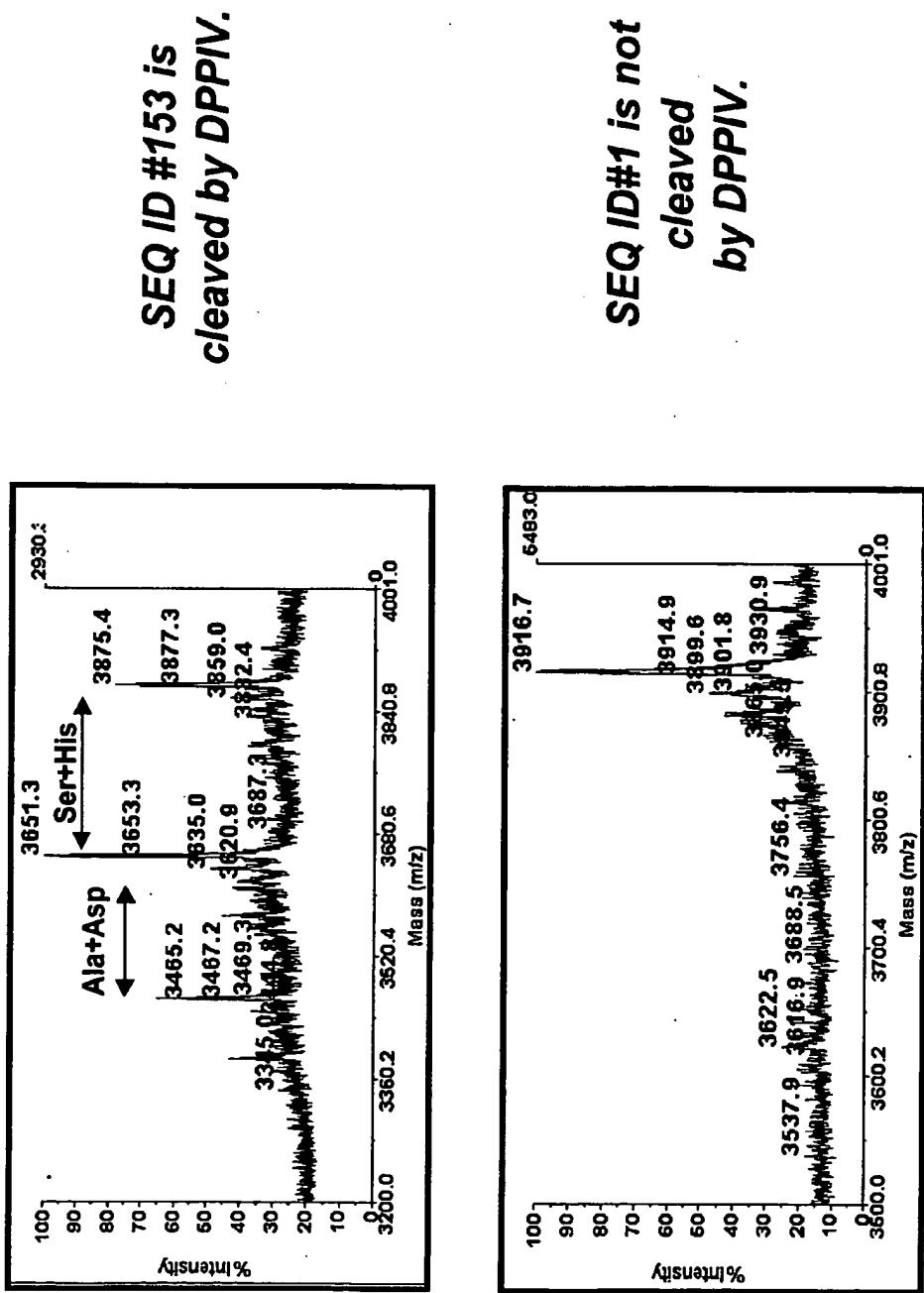


Figure 2a

Figure 2b



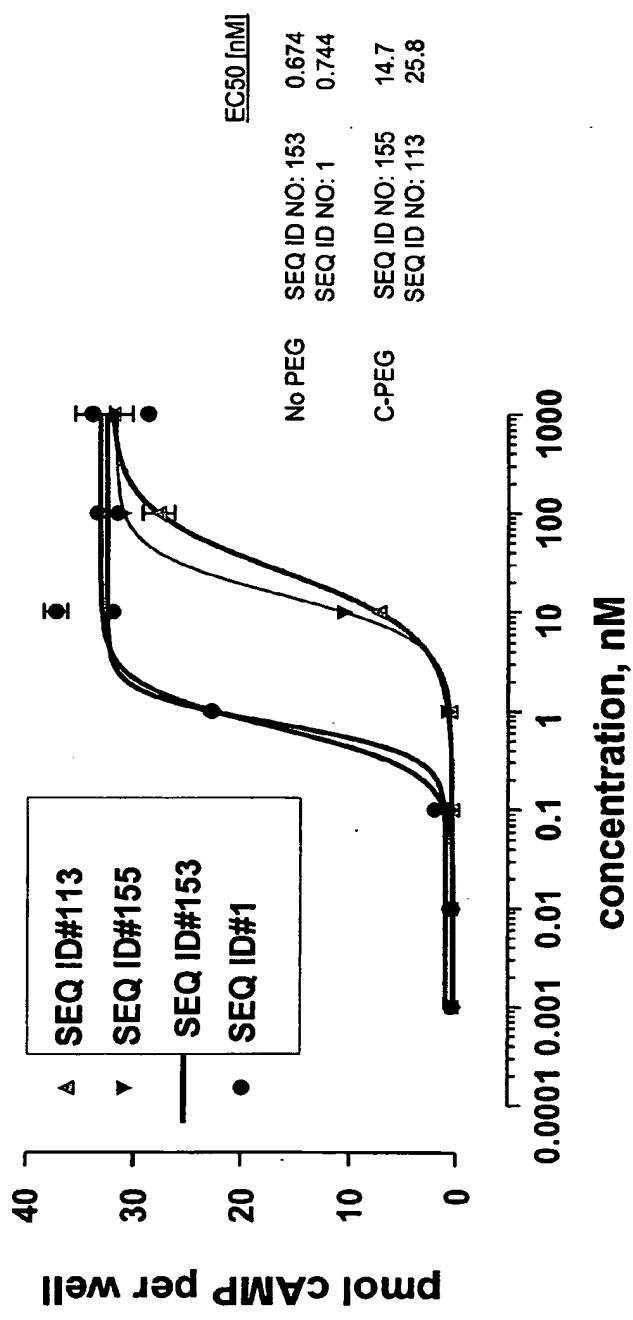


Figure 3

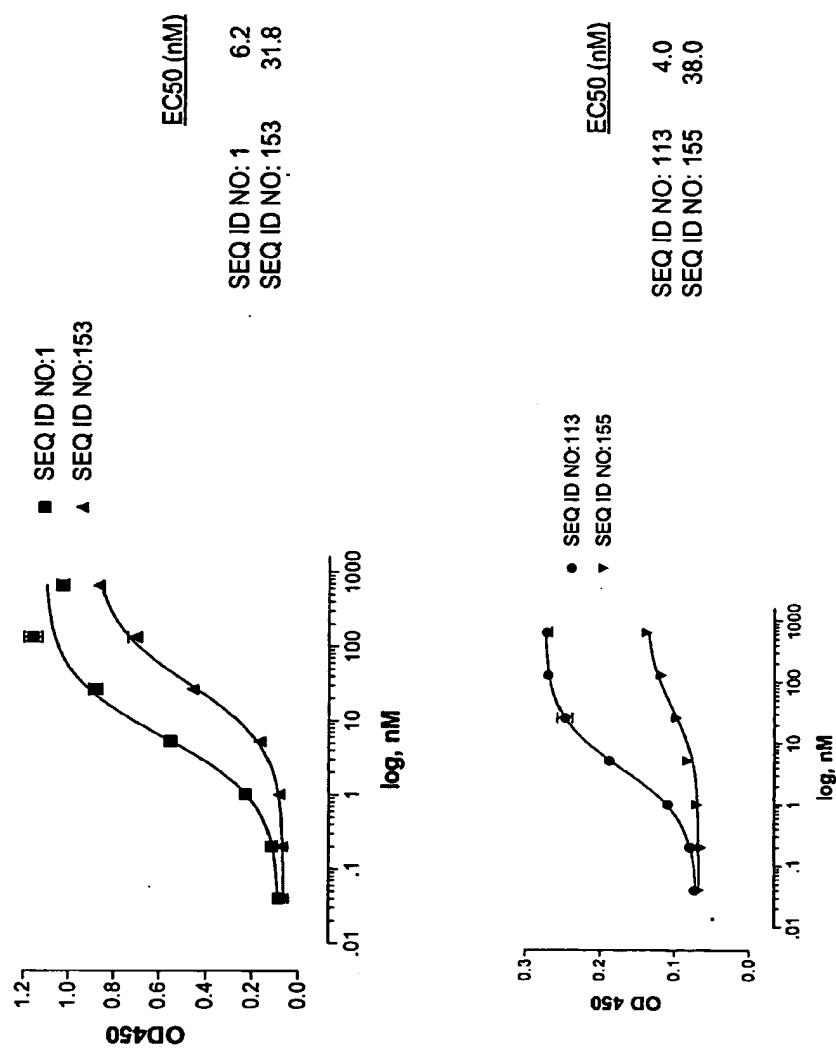


Figure 4

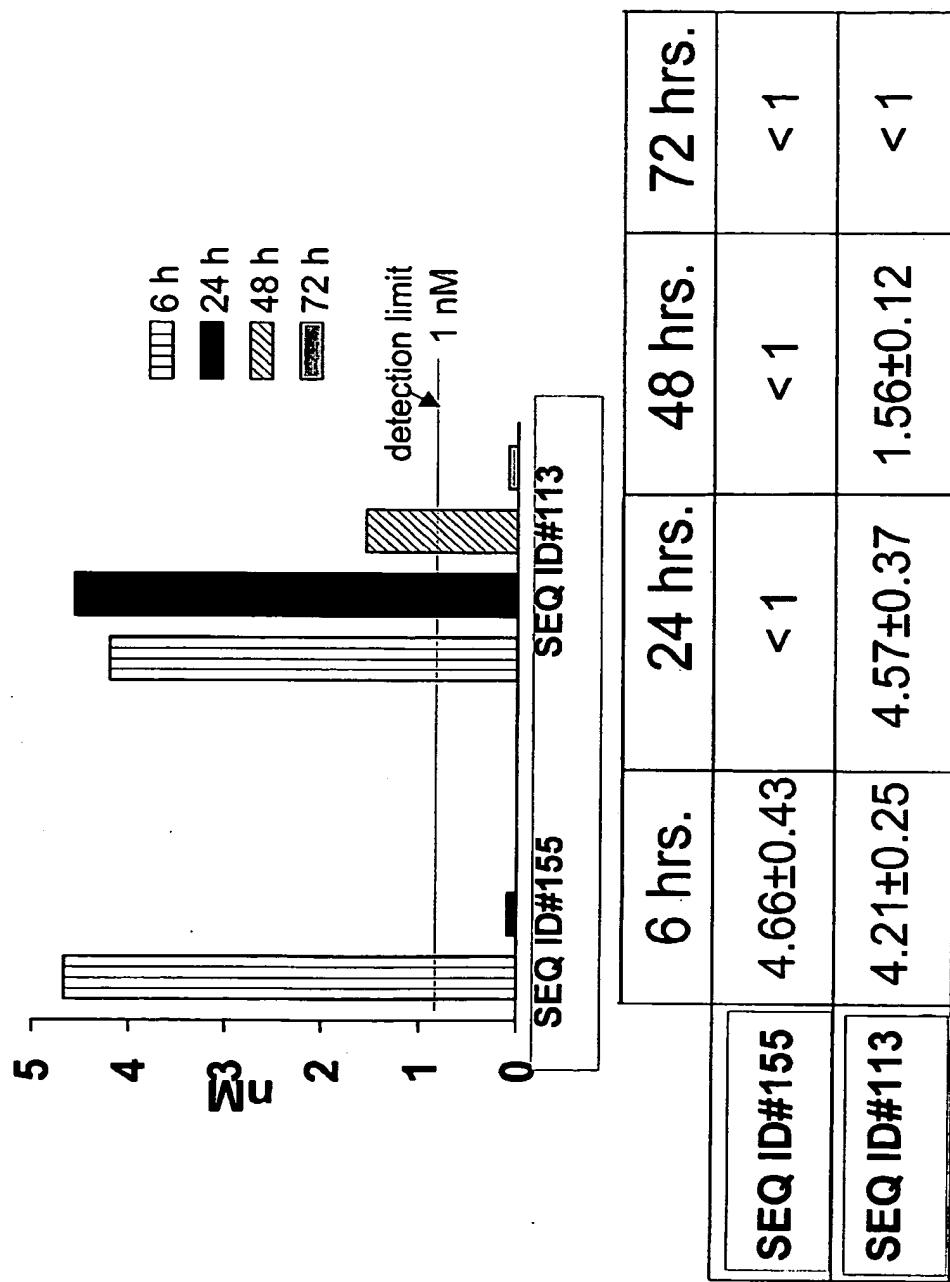


Figure 5a

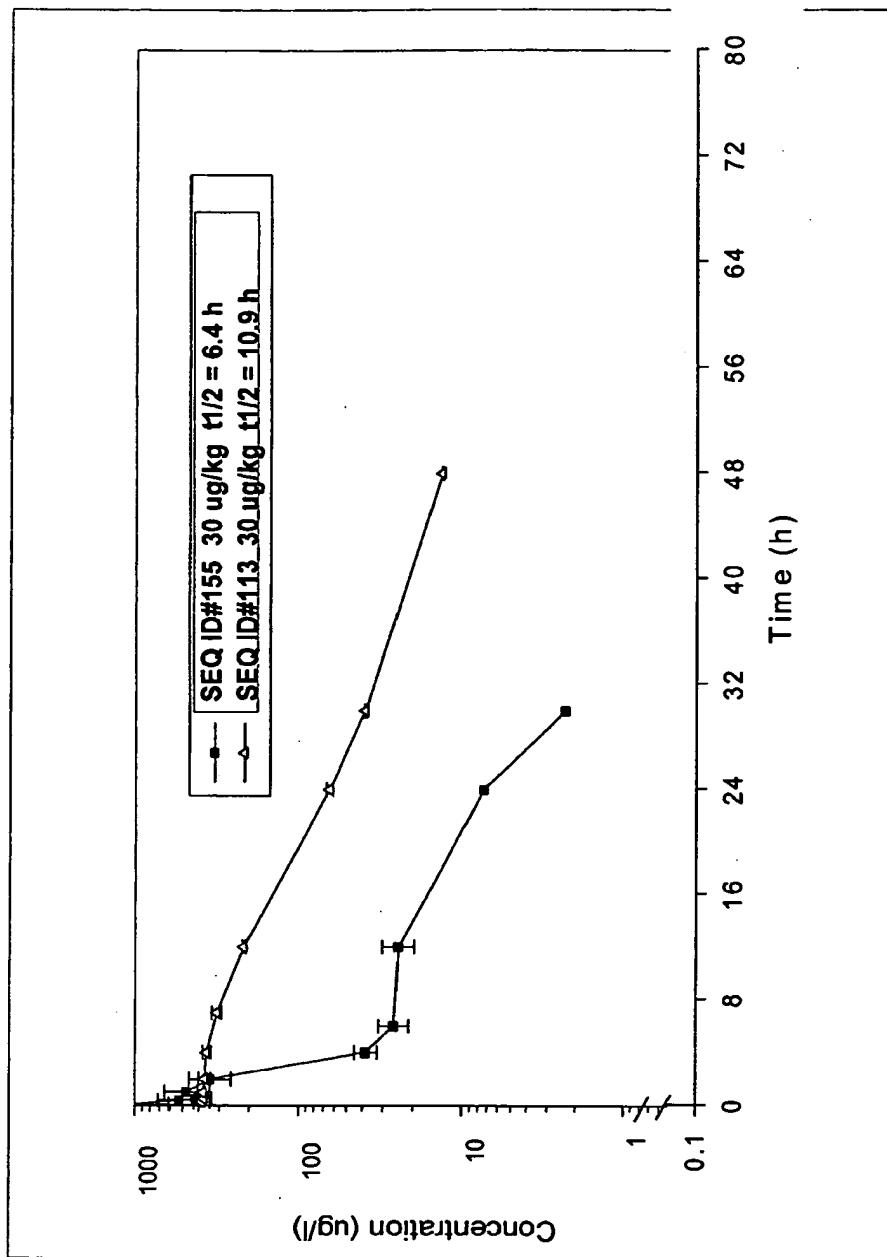


Figure 5b

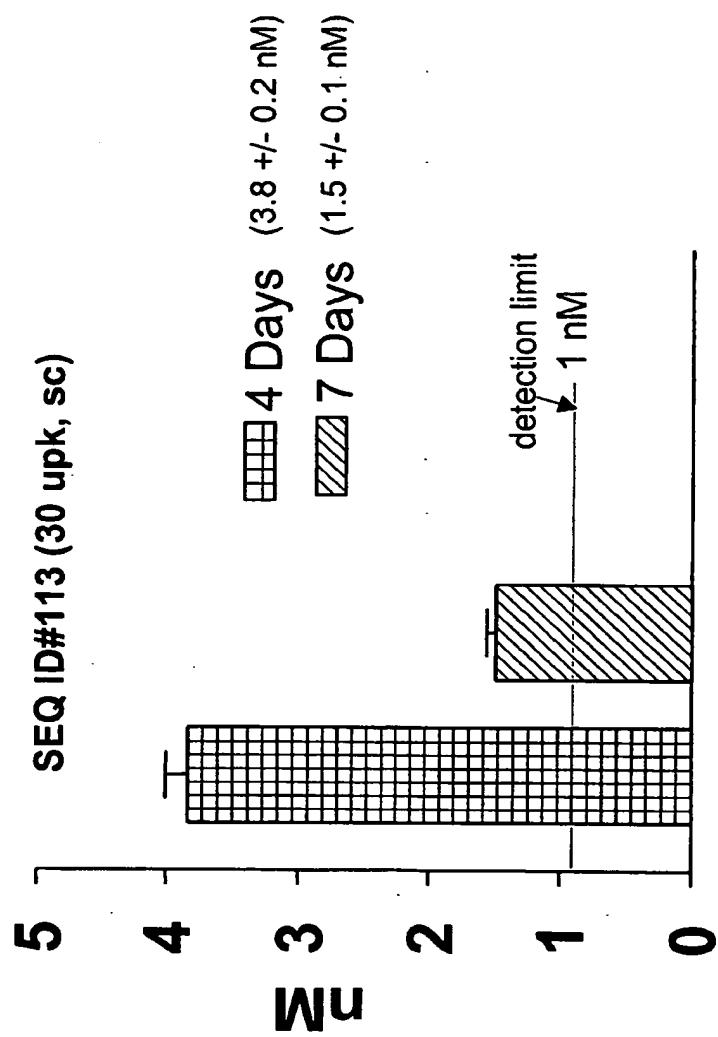


Figure 5c

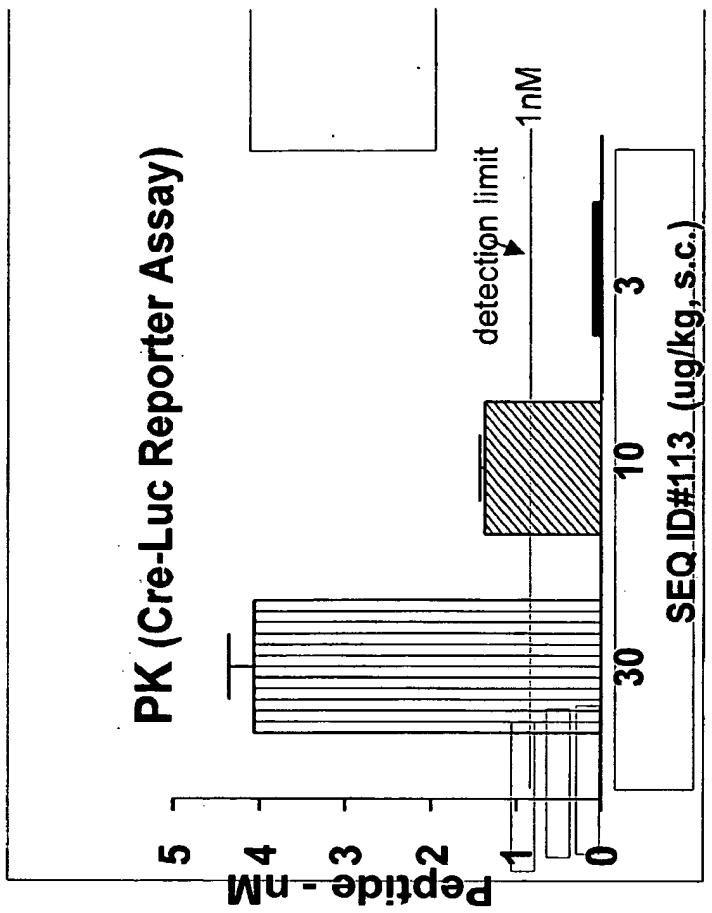
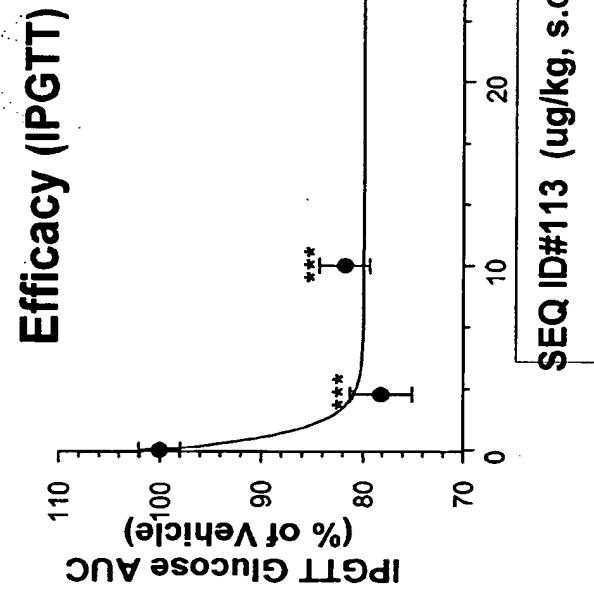
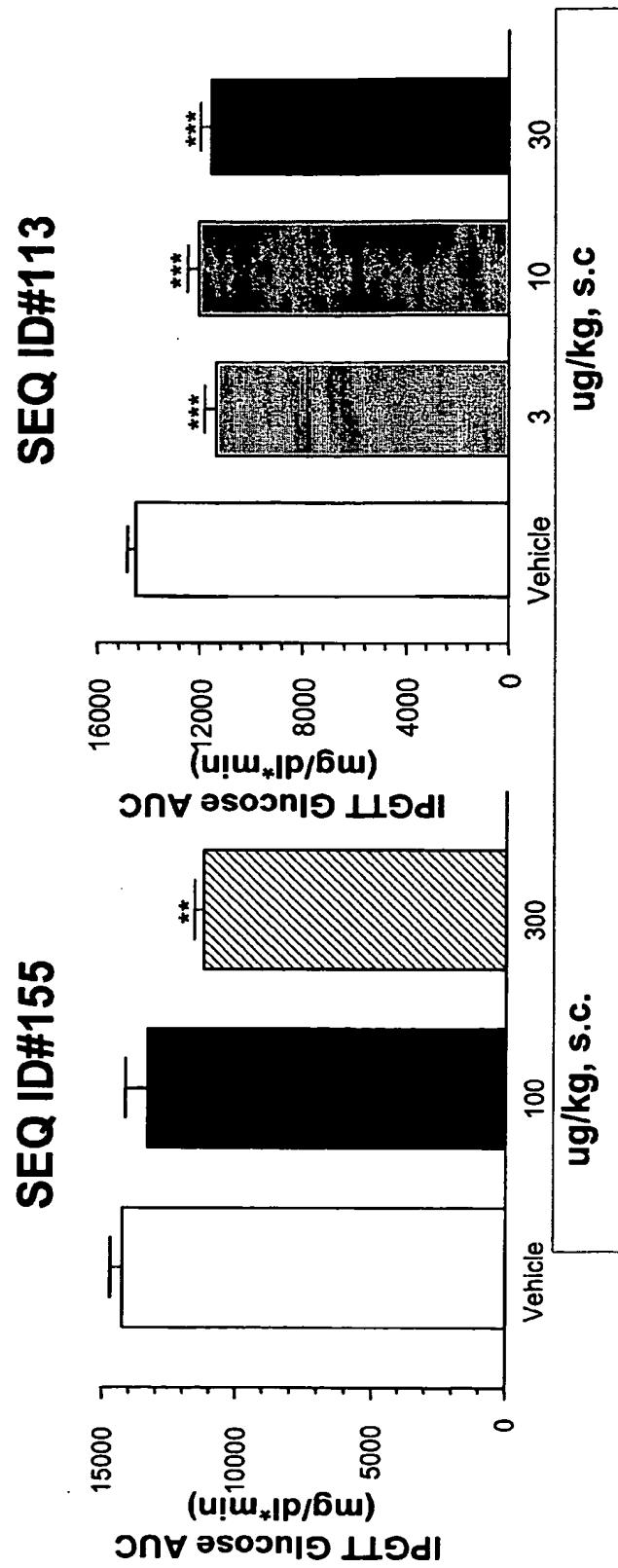


Figure 6a

Figure 6b



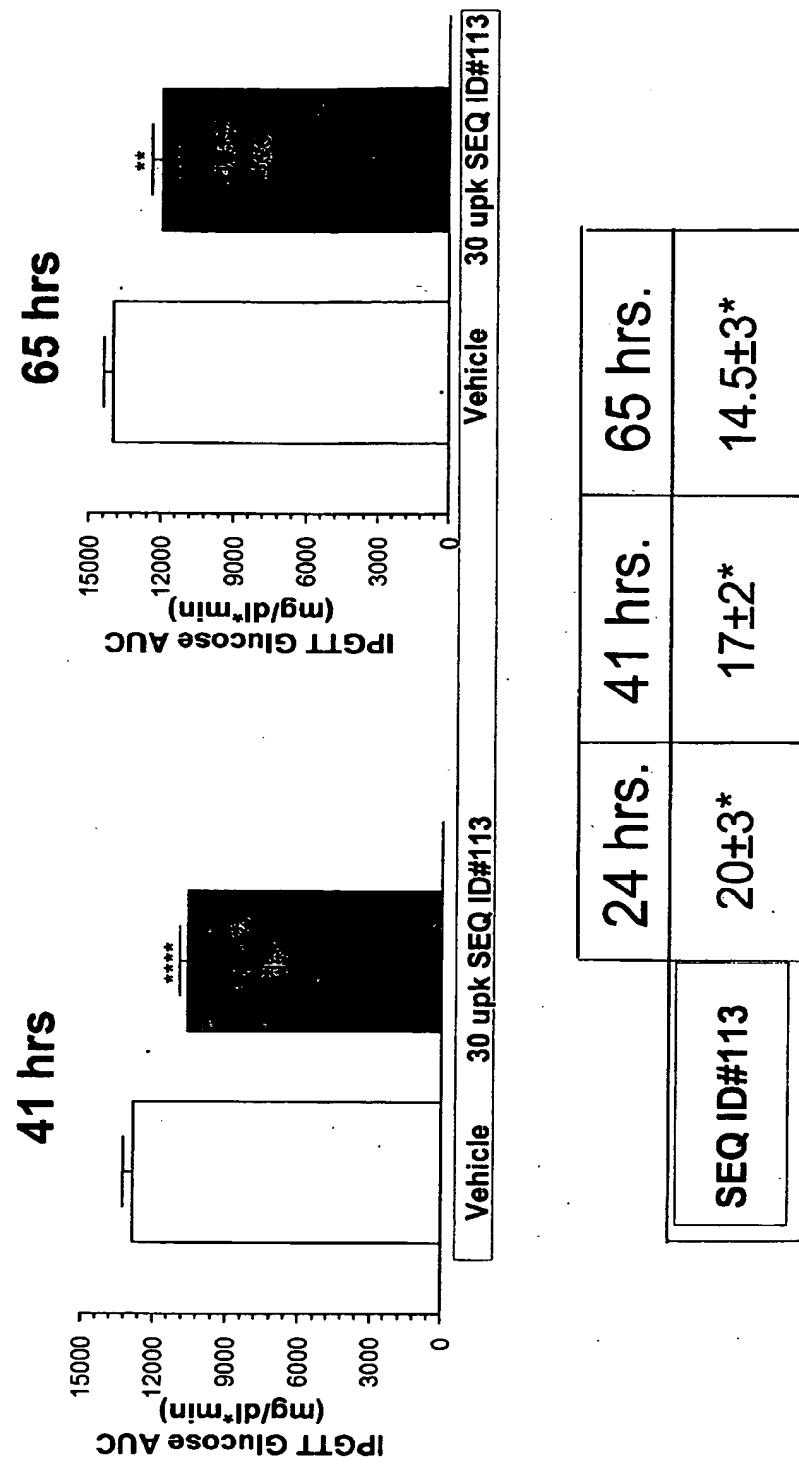


Figure 6c